VIT UNIVERSITY
(Estd. u/s 3 of UGC Act 1956)
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Final Assessment Test Lab Examination – November 2016

Programme	:	**MS Software Engineering**	Semester	:	**Fall 2016**
Course	:	**Case-Tools-II Lab**	Code	:	**SWE513**
Faculty	:	**Prof. Prakash /Prof. Sathyarajasekaran K**	Slot	:	**L37+L38+L39**
Time	:	**Three hours**	Max. Marks	:	**50**

Q.No.	Question Description	Marks
1.	A leading departmental store wants to acquire an automated tool for managing orders. The order is made on behalf of a registered customer. An order consists of a number of items in the stock. The system should keep track of the stock level of each item. The order is either pending or serviced. The order is serviced only if the stock level meets the request. An invoice is made at the time of servicing the order. Customer can make a payment by using debit / credit card or net banking.	
a.	Identify the functional, non-functional and business requirements for the above system. Perform Attribute and traceability matrices and generate SRS document for the above system.	**[15]**
b.	Design a database for the above system using Toad Data Modeller.	**[20]**
c.	Manage the various versions of the above application by using GITHUB.	**[15]**
2.	Web-based Auction systems are a major component of electronic marketplace that allow users at any site to sell and buy products. The sellers set up auctions for their products while the purchaser who bids the highest amount wins the right to purchase the product in an auction. Only registered users are allowed to use the system. In order to build the above system, we used an agent based approach for our implementation. There are three kinds of agents – PurchaserAgent, SellerAgent and FacilitatorAgent. The SellerAgent provides the function of registering goods for an auction to the sellers. The second agent is the PurchaserAgent that requires bidding to buy and it suggests a proper bidding price by analyzing the bidding history of the bidding competitor. The third agent is the FacilitatorAgent that plays the role of an auctioneer and enables a bidder to look at the other person's auction history while bidding for and buying a product.	
a.	Perform class analysis and class design diagram for the above system with suitable	**[20]**

	relationships and cardinality ratios, apply forward engineering and generate a code.	
b.	Create a login page for the above system using Aaptana and Firebug.	**[15]**
c.	Manage the various versions of the above application by using GITHUB.	**[15]**
3.a	For the scenario given in Question-2, perform Component, Deployment and package diagram by using any of the design tool.	**[15]**
b.	Design a simple University Ontology by using Protégé tool.	**[20]**
c.	Create a FFCS student login page by using Aaptana and Firebug.	**[15]**